

A N N U A L R E P O R T

of the

MEDICAL OFFICER OF HEALTH

for the

RURAL DISTRICT OF

HAWARDEN

for the year

1945.

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GENTLEMEN,

I have pleasure in presenting to you
my Twenty-second Annual Report upon the Health
of the District.

It is drawn up in accordance with
the Circular issued by the Ministry of Health
to Medical Officers of Health.

Yours obediently,

J. LEWELLYN JONES.

STATISTICS AND SOCIAL CONDITIONS
OF THE AREA.

Area (in Acres)	....	...	...	...	32,558.
Population (Census 1931)	...	...	...	...	26,570.
Population (June 1945)	...	...	...	...	29,700.
Density	...	...	...	...	.91.
Number of Inhabited Houses, end of 1945, according to Rate Books	...	...	...	...	8,748.
Number of occupied Houses owned by Local Authority	...	...	...	...	1,392.
Rateable Value	...	...	...	...	£167,752.
Sum represented by ld. Rate	...	...	...	...	£674.
Births	...	...	...	...	588.
Birth Rate per 1,000	...	...	...	...	19.8.
Deaths	...	...	...	...	295.
Death Rate per 1,000	...	...	...	...	9.9.
Infantile Mortality Rate per 1,000	...	...	...	...	44.2.
Death Rate from all forms of Tuberculosis	...	...	...	...	.47.

EXTRACTS FROM THE VITAL STATISTICS
FOR THE YEAR.

		M.	F.	Total.	
LIVE BIRTHS	Legitimate	275.	268.	543.	Birth rate per 1,000 of estimated resident population - 19.8.
	Illegitimate	23.	22.	45.	
STILL BIRTHS	Legitimate	7.	6.	13.	Rate per 1,000 total (live and still-births) births - 24.8.
	Illegitimate	2.	0.	2.	
DEATHS	Male	157.			Death Rate - 9.9.
	Female	138.			
				Total - 295.	

Deaths from diseases and accidents of Pregnancy
and Childbirth :-

From Sepsis	...	...	...	...	0.
From other Causes	...	...	...	...	1.

Death Rates of Infants under One Year :-

All infants per 1,000 live births	...	...	44.2
Legitimate Infants per 1,000			
Legitimate live births	...	...	36.8.
Illegitimate Infants per 1,000			
Illegitimate live births	...	...	190.0.

		M.	F.
Deaths from Measles (all ages)	0. 0.
Deaths from Whooping Cough (all ages)	0. 0.
Deaths from Diarrhoea (under 2 years of age)	3. 0.
Deaths from Cancer (all ages)	30. 28.

CAUSES OF DEATH.

	M.	F.
1. All Causes	157.	138.
2. Typhoid and Para-typhoid Fevers	0.	0.
3. Measles	0.	0.
4. Scarlet Fever	0.	0.
5. Whooping Cough	0.	0.
6. Diphtheria	0.	1.
7. Influenza	1.	0.
8. Encephalitis Lethargica	1.	0.
9. Cerebro-Spinal Fever	0.	0.
10. Tuberculosis of Respiratory System	6.	7.
11. Other Tuberculosis diseases	1.	0.
12. Syphilis	1.	0.
13. Cancer, Malignant Disease	30.	28.
14. Diabetes	1.	2.
15. Cerebral Haemorrhage, etc.	6.	12.
16. Heart Disease	38.	34.
17. Aneurysm	0.	0.
18. Other Circulatory Diseases	4.	4.
19. Bronchitis	11.	4.
20. Pneumonia (all forms)	6.	5.
21. Other Respiratory Diseases	1.	1.
22. Peptic Ulcer	2.	0.
23. Diarrhoea, etc. (under 2 years)	3.	0.
24. Appendicitis	0.	0.
25. Diseases of Liver, etc.	0.	0.
26. Other Digestive Diseases	6.	3.
27. Acute and Chronic Nephritis	6.	5.
28. Puerperal Sepsis	0.	0.
29. Other Puerperal causes	0.	1.
30. Congenital Debility, Premature Birth, Malformations, etc.	9.	8.
31. Road Traffic Accidents	0.	4.
32. Suicide	0.	1.
33. Other violence	3.	3.
34. Other Defined Diseases	20.	15.
Deaths of Infants under 1 year :-		
Legitimate	11.	9.
Illegitimate	4.	2.
Population	29,700.	

GENERAL PROVISIONS OF HEALTH SERVICES
IN THE AREA.

1. Public Health Officers of the Authority.

The Public Health Officials of the Hawarden Rural District Council consist of :-

Medical Officer of Health (part-time) -

J.G.Llowellyn Jones, M.B., Ch.B., D.P.H.

Sanitary Inspector (No.1 District) -

M.Emlyn Thomas, M.S.I.A., A.R.S.I., Meat
and Food Certificate, R.S.I.

Sanitary Inspector (No.2 District) -

Watkin Williams, M.S.I.A., A.R.S.I., Meat
and Food Certificate, R.S.I.

2. Laboratory Facilities.

This work is carried out by the Bacteriological Department, Royal Infirmary, Chester; The Bacteriological Department, University of Liverpool; and Harold Lowe Esq., Public Analyst, Chester. The examination of Milk samples is carried out at the University College of North Wales, Bangor, and the Emergency Public Health Laboratory, Conway.

3. Ambulance Facilities.

(a) For Infectious Cases. The Isolation Hospital is provided with a Motor Ambulance which is used solely for the conveyance of Infectious Disease.

(b) For Non-Infectious and Accident Cases. No official provision is made, but the Ambulances provided by Messrs. John Summers and the Deeside Voluntary Ambulance are available. There is also an agreement between the Flintshire County Council and the Chester Corporation, under which the Ambulances of the latter are instantly available when required.

4. Nursing in the Home.

(a) The District Nurses are greatly in demand and co-operate most willingly with the Medical Practitioners. Nursing is provided by public subscriptions to the Nursing Funds, under the auspices of the North Wales Nursing Association. By the kindness of the District Nurses I am in the position to give you the following information :-

<u>Name of Association.</u>	<u>Name of Nurse.</u>	<u>Cases.</u>	<u>No. of Visits.</u>
Shotton, Queensferry and Garden City.	Nurse Shaw.	73.	4,420.
	Nurse A.E.Humphreys	204.	3,548.
Hawarden	Nurse E.Davies and Nurse Benion	226.	2,541.
Higher Kinnerton	Nurse E.Huntback	45.	445.
Llanfynydd	Nurse Marion N.Gordon	285.	2,250.
Hope.	Nurse Lily Williams and Nurse D.Williams.	315.	4,700.
Tryddyn	Nurse Maud Evans	148.	2,049.

(b) Infectious Diseases. No provision has been made for the home nursing of such cases.

5. Clinics and Treatment Centres.

There have been no additional Clinics or Treatment Centres established during the year.

6. Hospitals: Public and Voluntary.

Isolation Hospitals, Pentrobin, Hawarden;
Catherine Gladstone Maternity Home, Manot;
Meadowslea Sanatorium, Penyffordd.

SANITARY CIRCUMSTANCES OF THE AREA.

1. Water.

The following Companies have powers to supply water in the Council's area.

Wrexham Water Co. - Parishes of Llanfynydd, Hope, including Cymmau.

Brymbo Water Co. -- Parishes of Treuddyn and Llanfynydd.

Hawarden Water Co.- Parishes of Hawarden, West Saltney, Sealand.

Chester Water Co. - Parish of East Saltney.

In addition to the aforementioned water supplies the Council are responsible for a small undertaking for supplying the Village of Kinnerton.

During the year 40 samples were taken from piped and non-piped supplies. Of these samples some were found to be unsatisfactory, and where the results of the samples were found to be below the required standard all possible steps were taken to improve the quality of the supply.

In the parts of the area where there is a piped water supply, only a few minor complaints were received regarding the insufficiency of the supply.

No lead, copper or zinc contents have been found in any of the samples taken.

Eighty-five per cent of the occupied houses in the area are provided with a piped water supply direct from the Water Company's mains, in addition to this a small percentage of properties are dependant on standpipes connected to the water mains. Some of the outlying parts of the area are still without a piped water supply, but it is hoped that in the near future the existing water mains will be extended to serve the whole area.

A summary of the results of the bacteriological analyses of water are given in tabulated form.

PRIVATE SUPPLIES.

Sample taken from:-	Date.	Plate Count Yeastral agar. 3 days 22°C. 37°C.	Probable number of Coliform Bacilli MacConkey. 2 days 37°C.	Approx. Proportion of Faecal & Non-faecal coli. Faecal. Non-faecal.	Remarks and Ministry of Health Classification
3 Bella Vista, Penyffordd.	27.2.45.	285 per ml.	1,800 per ml.	0.	Replaced by Public Supply.
1 Bella Vista, Penyffordd.	27.2.45.	1,170 "	1,800 per ml.	110.	0. -do-
Llanfynydd	27.2.45.	13 "	5 per ml.	0.	Class 2.
Llanfynydd	10.4.45.	3 "	20 per ml.	0.	Class 3.
Gaergrle	26.4.45.	16 "	350 "	0.	Class 4.
"	26.4.45.	3 "	350 "	0.	Class 4.
"	26.4.45.	2 "	100 "	0.	Class 4.
Llanfynydd	8.5.45.	30 "	300 "	0.	Class 4.
Cold Chimneys, Penyffordd.	31.7.45.	48 "	300 "	150.	Class 4.
Llanfynydd	23.7.45.	7 "	40 "	0.	Class 4.
Llanfynydd	23.7.45.	13 "	25 "	0	Class 4.
Hopes Place, Bretton.	4.7.45.	9600 "	1800 "	1800	Well Condemned and Closed.

Sample taken from:-	Date.	3 days 22°C.	2 days. 37°C.	Probable number of Coliform Bacteria Milk MacConkey. 2 days 37°C.	Approx. Proportion of Faecal & non- faecal coli. Faecal. Non-faecal.	Remarks and Ministry of Health Classification.
Hopes Place, Bretton.	4.7.45.	4 per ml.	0 per ml.	9 per ml.	2. 0.	Unsatisfactory.
Bretton Pump.	18.7.45,	0.	0.	"	0. 0.	Class 1.
Maddocks Farm.	4.4.45.	2 "	1 "	0.	0. 0.	Class 4.
Gladstone Way.	3.8.45.	1020 "	226 "	1800 "	350. 0.	Replaced by Public Supply
Llanfynydd	10.9.45.	3 "	4 "	25 "	0. 0.	Class 4.
Llanfynydd	10.9.45.	2 "	2 "	10 "	0. 0.	Class 4.
Halkyn Main	24.9.45.	7 "	3 "	25 "	25. 0.	Class 4.
Caergwrle Supply	2.11.45.	8 "	3 "	11 "	2. 0.	Class 4.
Caergwrle Supply	2.11.45.	320 "	7 "	250 "	0. 0.	Class 4.
Caergwrle Supply	2.11.45.	510 "	12 "	50 "	0. 0.	Class 4.
Llanfynydd	17.11.45.	22 "	16 "	60 "	25. 0.	Class 4.
Llanfynydd	7.12.45.	2 "	1 "	80 "	0. 0.	Class 4.
Cold Chimneys	6.12.45.	1 "	2 "	0 "	0. 0.	Class 1.

PUBLIC SUPPLIES.

Sample taken from:-	Plate Count Yeastral agar.		Probable number of Coliform Bacteria in 100 ml.		Approx. Proportion of Faecal & Non-faecal coli.		Remarks and Ministry of Health	
	Date.	3 days 22°C.	2 days 37°C.	1800 per ml.	3 per ml.	2 days 37°C.	Faecal. Non-faecal. Classification	
Brymbo Water Co.	23.7.45.	32 per ml.	3 per ml.	1800 per ml.	0.	0.	Class 4.	
Wrexham Water Co.	2.7.45.	0	"	2	"	0	Class 1.	
"	2.7.45.	12	"	6	"	0	Class 1.	
"	2.7.45.	24	"	4.	"	0.	Class 1.	
Hawarden Water Co.	25.7.45.	3	"	0	"	0.	Class 1.	
"	24.9.45.	0.	"	1	"	0	Class 1.	
"	1.10.45.	14	"	3	"	0	Class 1.	
"	1.10.45.	2	"	0	"	0	Class 1.	
Brymbo Water Co.	19.12.45.	1	"	0.	"	8	Class 3.	
"	19.12.45.	4	"	1	"	8	Class 3.	
Hawarden Water Co.	12.12.45.	4.	"	0	"	5	Class 1.	
"	12.12.45.	3	"	2	"	0	Class 1.	
"	12.12.45.	1	"	0	"	0	Class 1.	

2. Drainage & Sewerage.

Since the publication in 1938 of the last full report the scheme for the sewerage and sewage disposal at Broughton and Bretton has been completed, and whilst full advantage could not be taken during the war years to connect all the property, a considerable number have been connected, and privy middens have been replaced by water closets.

It will be appreciated that the Council were unable, during the period of the war, to proceed with their programme of sewerage and sewage disposal in those parts of the District where these services have not yet been provided.

The Surveyor to the Council submitted in October, 1944, a comprehensive report dealing with sewerage and sewage disposal of the whole area wherein recommendations were made for consideration of the Council. Based on these recommendations the Council will proceed with the preparation of a number of schemes.

3. Public Cleansing.

Scavenging is carried out in the undermentioned districts by Contract :-

Cymmau, Cefnybedd, Hope and Caergwrle, Ffrith and Llanfynydd, Goed Talon and Pontybedkin, Penyffordd and Penymynydd, Broughton and Bretton, Dobshill and Warren, Ewloe Green, and Marford and Hoesley.

During the current year the Council have decided to do the whole of the area by direct labour.

4. Shops and Offices.

Shops in the area are inspected periodically for the purposes of the Shops Act, 1934, but no formal action was found necessary during the year.

5. Camping Sites.

There are no organised camping sites in the area, and no licences have been issued under Section 269 of the Public Health Act, 1936.

There are, however, two sites on which caravans and temporary dwellings are situated.

Blackham's Field, Pentre, Queensferry,
Higher Ferry Lane, Sealand.

Camp Field, Higher Ferry Lane.

There are 44 caravans on this site, 6 of which are occupied as permanent residences, the remainder being used as dwellings at weekends and during the holiday season.

6. Smoke abatement.

No action has been taken in this respect.

7. Swimming Baths and Pools.

There are no swimming baths or bathing pools in the area.

8. Eradication of Bed Bugs.

Several privately owned dwelling houses and Council houses were dealt with during the year for bug infestation.

The necessary work of disinfection was carried out by the Sanitary Inspectors. The methods adopted included the stripping off of all wall paper, removal of skirting boards and picture rails, and periodical spraying with "Zaldecide", "Gamexine" and D.D.T.

9. Rag Flock Acts, 1911 and 1928.

There are no premises in this area in which Rag Flock is manufactured or sold.

Name of School.	Situation.	Water Supply.	Sanitary Accommodation.
Flintshire C.C.	Saltney.	Chester W.Co.	Water Closets.
Wood Memorial	Saltney.	Chester W.Co.	Water Closets.
Roman Catholic	Saltney	Chester W.Co.	Water Closets.
Flintshire C.C.	Mold Junction.	Chester W.Co.	Water Closets.
Flintshire C.C.	Broughton.	Hawarden W.Co.	Water Closets.
Canon Drew Memorial	Hawarden.	Hawarden W.Co.	Water Closets.
Infant's School	Hawarden.	Hawarden W.Co.	Water Closets.
Miss Parry's (Private)	Hawarden.	Hawarden W.Co.	Water Closets.
Flintshire C.C.	Queensferry.	Hawarden W.Co.	Water Closets.
Flintshire C.C. (Infants)	Queensferry.	Hawarden W.Co.	Water Closets.
County School	Hawarden.	Hawarden W.Co.	Water Closets.
Church of England	Sandycroft.	Hawarden W.Co.	Water Closets.
Flintshire C.C.	Shotton.	Hawarden W.Co.	Water Closets.
St. Ethelwold's	Shotton	Hawarden W.Co.	Water Closets.
Flintshire C.C.	Ewloe Green.	Hawarden W.Co.	Water Closets.
Flintshire C.C.	Garden City.	Hawarden W.Co.	Water Closets.
St. John's	Penymynydd	Wrexham W.Co.	Water Closets.
Flintshire C.C.	Penyffordd	Wrexham W.Co.	Water Closets.
Flintshire C.C.	Hope.	Wrexham W.Co.	Water Closets.
Flintshire C.C.	Abermorddu.	Wrexham W.Co.	Water Closets.
Church of England	Kinnerton.	Kinnerton Water Supply.	Water Closets.
Church of England	Treuddyn.	Brymbo W.Co.	Water Closets.
Flintshire C.C.	Coed Talen.	Brymbo W.Co.	Water Closets.
Flintshire C.C.	Llanfynydd.	Private Supply.	Pail Closets.
Roman Catholic	Shotton.	Hawarden W.Co.	Water Closets.

INSPECTION AND SUPERVISION OF FOOD.

(a) Milk Supply.

The milk supply on the whole is of fairly good quality. Considerable amount of work has been done during the past year with regard to the production of clean milk by way of sampling, structural improvements, and general supervision.

During the year 29 samples were taken and the following is a list of bacteriological and biological analyses of milk as sold to the consumer, and a perusal of this list will show that a high standard of cleanliness has been attained.

The total number of Purveyors of Milk in this area is 340.

REPORTS OF THE BACTERIOLOGICAL AND BIOLOGICAL EXAMINATION OF MILK SAMPLES TAKEN DURING THE YEAR 1945.

Lab. Ref:	Date Received.	E. Coli.		Methylene Resazurin		Result of Animal Ino- culation.
		Present in.	Absent In.	Blue Test	Disc. No.	
34710.	30.10.45.	--	-	Satisfact	-	-
				ory.		
34711.	-do-	-	-	-do-	-	-
34712.	-do-	-	--	-do-	-	-
35909.	7.11.45.	¹ /100th CC.		-	-	-
35910.	-do-	-	1 C.C.	-	-	-
35911.	-do-	-	1 C.C.	-	-	-
1.	16. 5.45.	-	-	-	6A.	-
2.	22. 5.45.	-	--	-	6A.	-
3.	22. 5.45.	-	-	-	$\frac{1}{2}$ C.	-
4.	25. 6.45.	-	-	-	5A.	-
6.	27. 9.45.	-	-	-	5A.	-
7.	27. 9.45.	-.	-	-	6A.	-
8.	27. 9.45.	- ml.	-	-	$\frac{1}{2}$ C.	-
9.	27. 9.45.	- ml.	-	-	$\frac{1}{2}$ C.	-
10.	27. 9.45.	- ml.	-	-	$\frac{1}{2}$ C.	-

Lab Ref:	Date Received.	B. Coli.		Methylene Blue Test.	Resazurin Disc No.	Result of Animal Inoculation.
		Present	Absent			
13822.	27. 4.45.	--	--	--	--	Negative.
13823.	-do-	--	--	--	--	Positive.
13824.	-do-	--	--	--	--	Negative.
13447.	25. 4.45.	--	--	--	--	Negative.
13448.	-do-	--	--	--	--	Negative.
13449.	-do-	--	--	--	--	Negative.
18051.	6. 6.45.	--	--	--	--	Negative.
18052.	-do-	--	--	--	--	Negative.
35909.	7.11.45.	--	--	--	--	Negative.
35910.	-do-	--	--	--	--	Negative.
35911.	-do-	--	--	--	--	Negative.
19543.	19. 6.45.	--	--	--	--	Negative.
19544.	-do-	--	--	--	--	Negative.
19545.	-do-	--	--	--	--	Negative.

The positive result was reported to the Ministry of Agriculture & Fisheries Animal Health Division, Mold, who took the necessary steps and had the affected animal slaughtered.

(b) Meat and other Foods.

All premises concerned in the production of food have been regularly visited and the following is the amount of food found to be unfit for human consumption during the year.

Tinned Meat	.. ..	175	tins.
Tinned Fish	... ..	135	tins.
Tinner Milk	.. ..	119	tins.
Tinned Beans	... ..	86	tins.
Tinned Fruit	.. ..	2	tins.
Dried Peaches	.. ..	25	lbs.
Marmalade	.. ..	22	lbs.
Beans	.. ..	458	lbs.
Rolled Oats	.. ..	126	lbs.
Rice	.. ..	66	lbs.
Oranges	.. .. 7 cases	267	lbs.
Flour	.. ..	630	lbs.
Lemons	.. ..	123	lbs.
Sugar	.. ..	256	lbs.
Potatoes	.. .. 4 cwt	56	lbs.
Onions	.. ..	10	lbs.
Raisins	.. ..	25	lbs.
Butter	.. ..	172	lbs.
Cheese	.. ..	4	lbs.
Bacon	.. ..	5	lbs.
Eggs	.. ..	874	lbs.
Steak	.. ..	10	Stone.
Biscuits	.. ..	46	lbs.
Pickles	.. ..	13	jars.
Pudding mixture	.. ..	56	lbs.
Barley	.. ..	42	lbs.
Baking powder	.. ..	24	lbs.
Oatmeal	.. ..	335	lbs.

PREVALENCE AND CONTROL OF INFECTIOUS DISEASES.

Diphtheria.

Diphtheria Prophylactic Serum is issued free to Medical Practitioners for the immunization of children in the Area.

The number of children who received the full course of immunisation during the year was 619.

Vaccination.

No Vaccinations were carried out by the Medical Officer of Health under the Public Health Regulations, 1917.

Cleansing and Disinfection.

No facilities are available for the cleansing of and disinfection of verminous persons.

In all cases of Scarlet Fever and Diphtheria and death resulting from Tuberculosis and in all cases where it is considered advisable, the houses of the patients are thoroughly disinfected by the Sanitary Inspectors.

Cancer.

Special arrangements have been made with the Registrar of Births and Deaths, whereby he immediately notifies the Medical Officer of Health of all deaths from Cancer. The homes are visited, clothing and bedding are usually surrendered and destroyed.

Similar measures are carried out in the case of Tuberculosis.

Prevention of Blindness.

No action was taken under Section 66 of the Public Health Act, 1925.

INFECTIOUS DISEASES (OTHER THAN TUBERCULOSIS)
DURING THE YEAR 1945.

	Under 1 year.	1 and 3 under 3.	3 and 5 under 5.	5 and 10 under 10.	10 and 15 under 15.	15 and 25 under 25.	Non- Civil- ian.	Total.
Small Pox	-	-	-	-	-	-	-	0.
Scarlet Fever	-	2.	5.	19.	13.	4.	1.	44.
Diphtheria	-	2.	1.	-	3.	-	-	6.
Enteric Fever incl. Para T.	-	-	-	-	-	-	1. 1.	2.
Puerperal Pyrexia	-	-	-	-	-	-	1. -	1.
Pneumonia	8.	-	-	5.	-	6.	6.	25.
Erysipelas	-	-	-	-	-	2.	2.	4.
Ophthalmia Neon.	-	-	-	-	-	-	-	0.
Measles	11.	57.	81.	141.	17.	4.	1.	311.
Whooping Cough	2.	3.	2.	4.	1.	-	-	12.
Cerebro Spinal	-	-	-	1.	-	-	-	1.
Acute Polio- myelitis	-	-	-	-	-	-	-	0.

TUBERCULOSIS.

TABULATED NEW CASES FOR 1945.

Age Periods.	Resp.		Non Pulm.		Total.
	M.	F.	M.	F.	
1.	1.	0.	1.	0.	2.
5.	1.	0.	2.	1.	4.
10.	6.	9.	1.	2.	18.
25.	3.	0.	0.	0.	3.
35.	4.	2.	0.	0.	6.
45.	3.	0.	0.	2.	5.
55.	2.	0.	0.	0.	2.
65 and upwards	0.	0.	0.	0.	0.

COMPARATIVE FIGURES OF INCIDENCE OF NOTIFIABLE INFECTIOUS
DISEASES FOR THE LAST 10 YEARS.

	1935.	1936.	1937.	1938.	1939.	1940.	1941.	1942.	1943.	1944.	1945.
Scarlet Fever	212.	147.	92.	159.	62.	31.	36.	46.	41.	79.	44.
Diphtheria	51.	109.	78.	59.	26.	29.	77.	37.	30.	23.	6.
Typhoid.	-	2.	3.	2.	1.	-	5.	1.	-	-	2.
Puerperal Pyrexia	7.	12.	7.	4.	11.	4.	11.	7.	-	2.	1.
Pneumonia	34.	17.	42.	48.	24.	37.	52.	26.	18.	16.	25.
Erysipelas	5.	11.	5.	9.	5.	4.	5.	2.	5.	3.	4.
Cerebro Spinal Meningitis) 1.	-	-	-	-	1.	17.	17.	7.	-	1.	1.
Measles					135.	3.	126.	409.	90.	62.	311.
Whooping Cough					34.	261.	103.	44.	28.	52.	12.
Tuberculosis	23.	31.	39.	50.	44.	36.	40.	42.	46.	59.	40.